B.Tech. Degree VII Semester (Supplementary) Examination June 2006

IT/CS/EC 701 COMPUTER NETWORKS
(2002 Admissions)

Time: 3 Hours   Maximum Marks: 100

I	a)	Explain the OSI reference model.	(10)
	b)	Explain the various types of networks.	(10)

OR

II	a)	Write *short notes* on:	
		(i) FDDI (ii) X.25 networks	(10)
	b)	Explain the services provided by ISDN.	(10)

III	a)	Explain the services provided by the data link layer.	(10)
	b)	Explain the ARP and RARP protocols.	(10)

OR

IV	a)	Explain the methods of error detection and error correction in the data link layer.	(10)
	b)	Explain the function of Hubs, Switches and Bridges.	(10)

V	a)	Explain any two protocols used for routing packets in the network layer.	(10)
	b)	Explain IPV4 and IPV6 addressing methods.	(10)

OR

VI	a)	Explain what you mean by mobile IP.	(10)
	b)	Write *short notes* on:	
		(i) ICMP (ii) DHCP	(10)

VII	a)	Compare and contrast TCP and UDP.	(10)
	b)	Explain the TCP connection management.	(10)

OR

VIII	a)	Explain the causes of congestion control and the approaches to control congestion in a network.	(10)
	b)	Discuss the various functions of the transport layer.	(10)

IX	a)	Explain the working of RFC.	(10)
	b)	Discuss the methods of ensuring security in computer networks.	(10)

OR

X		Write *short notes* on any four:	
		(i) FTP (ii) SMTP	
		(iii) Firewall (iv) Digital signatures	
		(v) DNS (vi) Cryptography	(20)

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